

ABSTRACT OF THE DISCLOSURE

A stabilized power supply circuit includes a charge pump power supply circuit including four switching elements and a capacitor, and an error amplifier comparing the output voltage of the charge pump power supply circuit and a reference voltage and outputting an error signal on the basis of the difference therebetween. A current source is connected in series to the gate of a switching element formed of a MOSFET. The period during which electric charge is discharged from the gate is controlled in accordance with the error signal in order to maintain the output voltage constant.